

GM Duramax 6.6L 2008-2010

BG DIESEL EGR SYSTEM SERVICE INSTRUCTIONS



Wear safety goggles to protect your eyes.



Wear Nitrile,[®] Neoprene[®] or PVC gloves to protect your hands.



Wear a long-sleeved shirt to protect your arms.

IMPORTANT! Read product Safety Data Sheet before handling any BG product.

Adaptors required:



BG EF382 EGR M12 X 1.25 sensor port adaptor
PN E101-1648



BG EF384 EGR 0.40" D sensor port adaptor
PN E101-1650

Tools required:

- BG 64 Diesel VIA[®] supply tool, PN E101-1642

continued



EGR inspection

Before starting the EGR cleaning service, inspect the EGR components for severe deposits or clogging. Manual cleaning may be required (by scraping, sucking, wiping, etc.) before performing the service.

Service procedure

1. Add BG 245 Premium Diesel Fuel System Cleaner, PN 245, to vehicle's fuel tank.
2. Remove EGR cooler temperature sensor. On vehicles 2008 and newer, the sensor is toward the front of the engine.
3. Install BG EF382 adaptor in place of the EGR cooler temperature sensor. Do not disconnect wire connector.

Note: For cube vans, remove the extension for BG EF382 adaptor. This will allow the adaptor to fit into the tight space for these vehicles.

4. Remove Intake Boost pressure sensor. Install BG EF384 adaptor using existing bolt and tighten bolt very lightly. Attach the BG 64 Diesel VIA[®] supply tool to the BG EF382 adaptor. Ensure that the air valve and fluid valve on the supply tool are closed (see supply tool instructions). Do not disconnect wire connector.
 5. If engine is hot, the EGR cooler must be cooled before treatment can start. Open supply tool air valve, keeping fluid valve closed, and flush cooler with air for two minutes.
 6. Unscrew fill cap and fill supply tool with 64 oz. (1.8 L) of BG Diesel EGR System Cleaner, PN PD10.
 7. Reinstall the fill cap and hang supply tool from the hood latch. Connect shop air. Set air pressure on the supply tool to 40–50 psi.
 8. Start vehicle engine. Disconnect EGR solenoid harness to close EGR valve.
 9. Open the air valve on the supply tool. Adjust the regulator to maintain the initial pressure of 40–50 psi. Then open the supply tool fluid valve.
 10. After ¼ of the fluid has been dispensed, close the fluid valve and let the air flow for an additional two minutes to flush deposits into the exhaust stream.
 11. Repeat step 9 to dispense another ¼ of the fluid.
 12. Disconnect supply tool from the BG EF382 adaptor and connect it to the BG EF384 adaptor. Turn the air and fluid valves on the supply tool to open position.
 13. Reconnect EGR solenoid harness to open EGR valve. Continue service until the supply tool is empty.
- Note: If you hear a diesel knock sound at any time during the intake portion of the service, close the fluid valve for two minutes. After two minutes, open the fluid valve and continue service.**
14. When supply tool is empty, let the vehicle operate for an additional five minutes and rev the engine several times to clear all residual fluid.
 15. Repeat steps 6–14 using 32 oz. (946 mL) of BG Diesel EGR System Rinse, PN PD11.

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16. Turn the fluid and air valves on the supply tool to the closed position. Turn the vehicle off. Detach shop air line and depressurize the supply tool by rotating the regulator knob counter-clockwise.
17. Remove adaptors and reassemble vehicle components in the reverse order of removal.
18. After service, reset any engine codes. The vehicle should then be set to run a manual regeneration cycle. If that is not possible, the vehicle should be driven at highway speeds (or in the case of non-highway equipment operated under a load) for approximately 30 minutes. This is necessary to remove all of the residual fluid from the passages and cooler(s) and to combust any material that has reached the diesel oxidation catalyst (DOC) and diesel particulate filter (DPF). **This should be done as soon as possible after the service.**

